


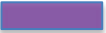






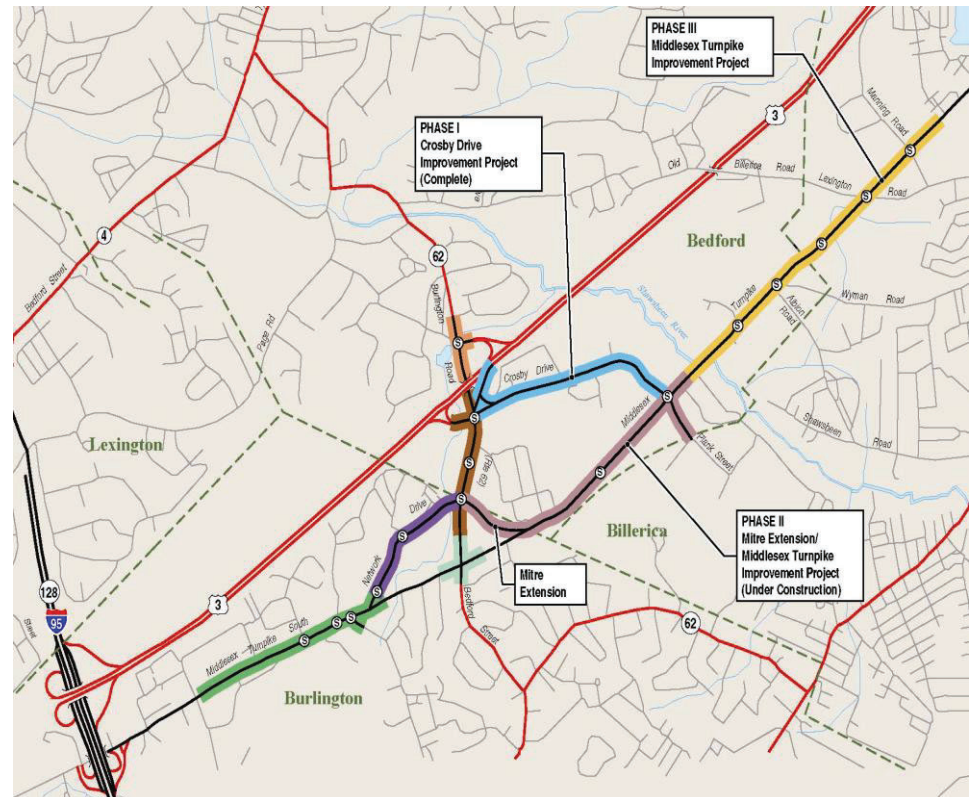
Bedford & Billerica Middlesex Turnpike - Phase 3 Transportation Improvements

Project File No. 029492

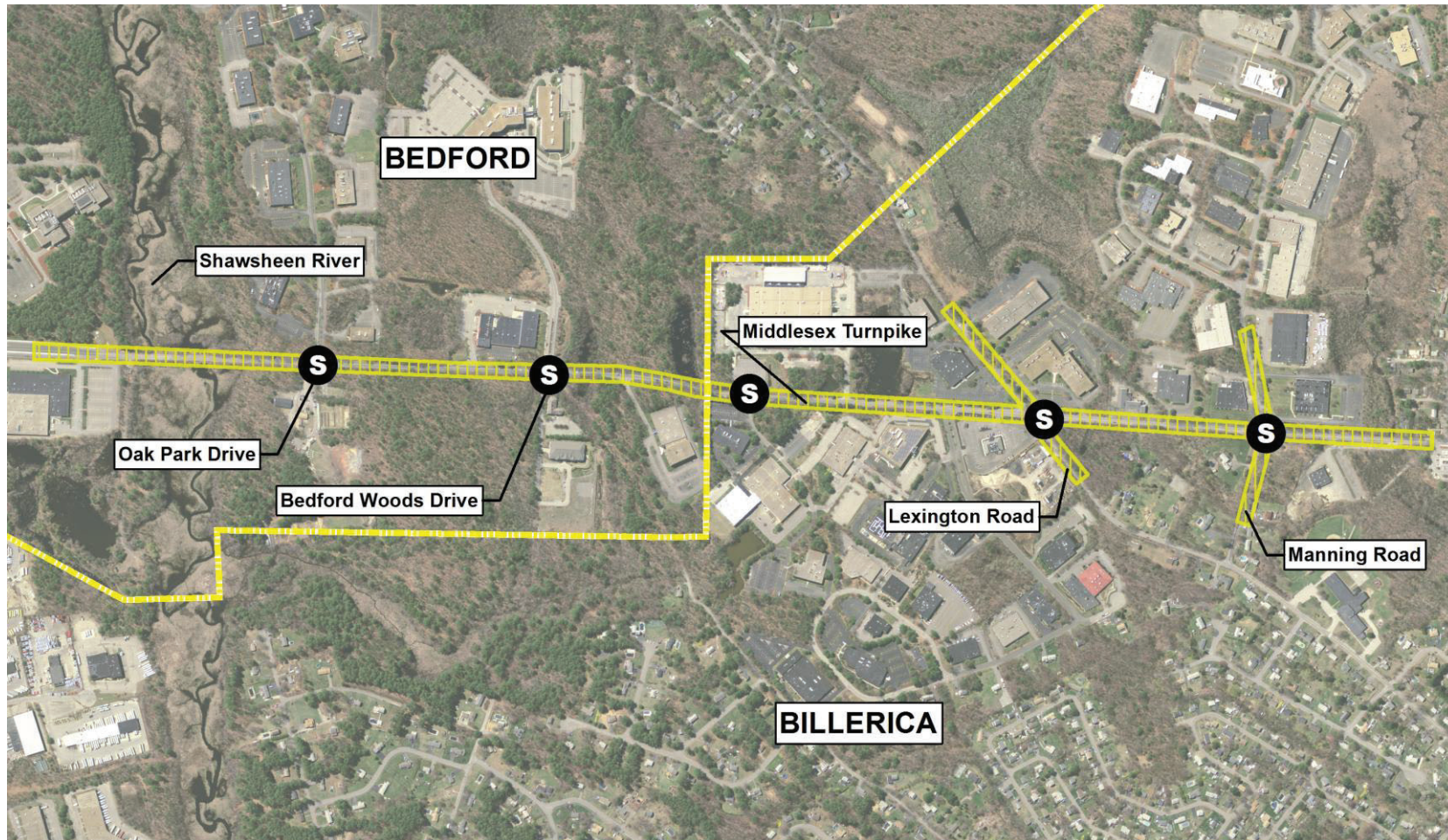
Contract No. 97932

Project History

- **Phase I—Crosby Drive—029490:**
Construction Complete 2007
\$3,809,203.84 
- **Phase II—Middlesex Tpke—029491:**
Construction Complete 2016
\$11,683,387 
- **Phase III—Middlesex Tpke—029492:** 
- Network Drive 
- Route 62 
- Route 3 Northbound Slip Ramp 
- Route 3 Southbound Ramps 
- Middlesex Turnpike, Burlington 



Project Location



Existing Conditions

Traffic Congestion

- 16,135 vehicles per day in 2015
- Level of Service E or F at major intersections
- Excessive delay at unsignalized movements
- One-quarter mile queues on mainline during peak periods



Existing Conditions

Intersection Safety

- No crosswalks present
- The Lowell Regional Transit Authority service the project area.
- Passengers are currently discharged onto the roadway shoulder with no refuge area.



Existing Conditions

No Bicycle or Pedestrian Accommodation

- Lack of Sidewalks
- Lack of shoulder striping
- Lack of access to businesses and restaurants for pedestrians



Existing Conditions

Shawsheen River Culverts

- Structurally Deficient
- Overtop During Flood Events



Project Purpose

- Traffic Congestion
 - Relieve congestion by adding capacity and coordinating signals
- Intersection Safety
 - Improve intersection safety by adding signals, cross walks and curb ramps.
- Bicycle and Pedestrian Accommodation
 - Improve safety and increase usage by bicyclists and pedestrians by providing 5-foot bike lanes and accessible 5.5-foot sidewalks on both sides of the roadway

Project Purpose

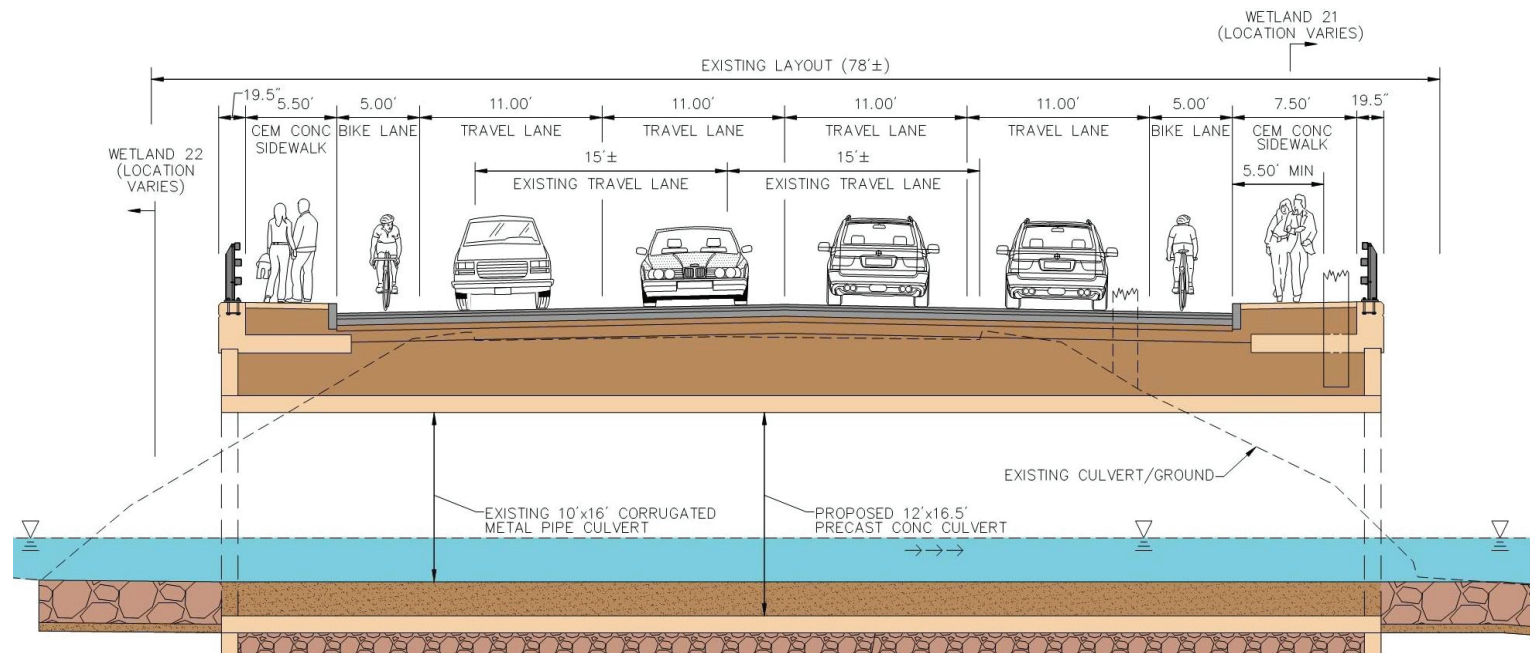
- **Shawsheen River Culverts**
 - Mitigate flood impacts by raising the roadway profile at the river and providing new precast concrete culverts.
- **Roadside Safety**
 - Improve safety by installing guardrail where required.
- **Drainage Deficiencies**
 - Eliminate ponding of water in the roadway by installing a new drainage system that complies with Stormwater Management Standards

Project Scope

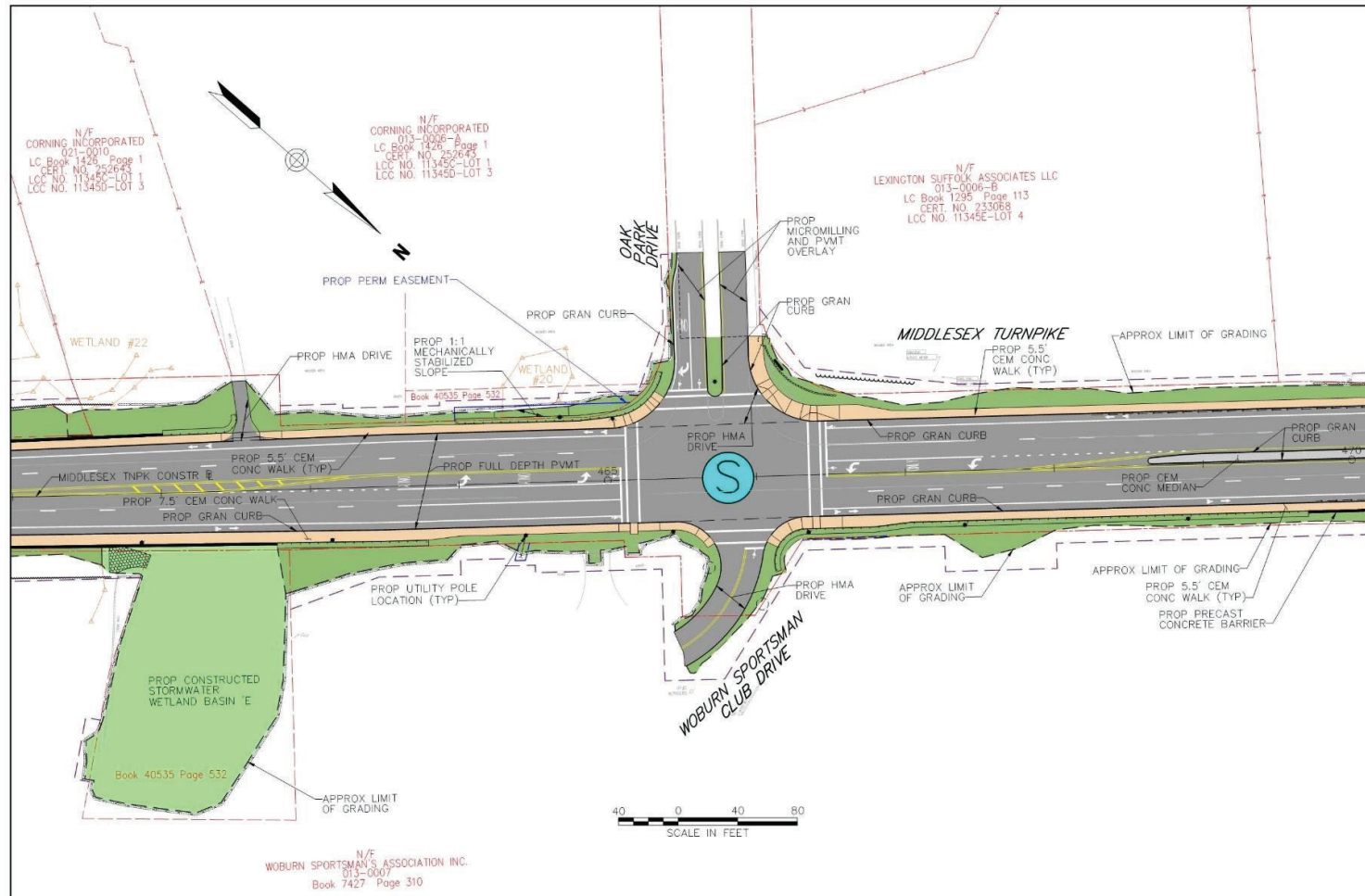
- Approximately 1.6 miles of roadway reconstruction
- The existing 2-lane roadway will be expanded to 4-lanes with turning lanes to add capacity
- Signalized Intersections at Oak Park Drive, Bedford Woods, 900 Middlesex Turnpike, Lexington Road and Manning Road
- Replacement of the Shawsheen River Culverts

Proposed Improvements

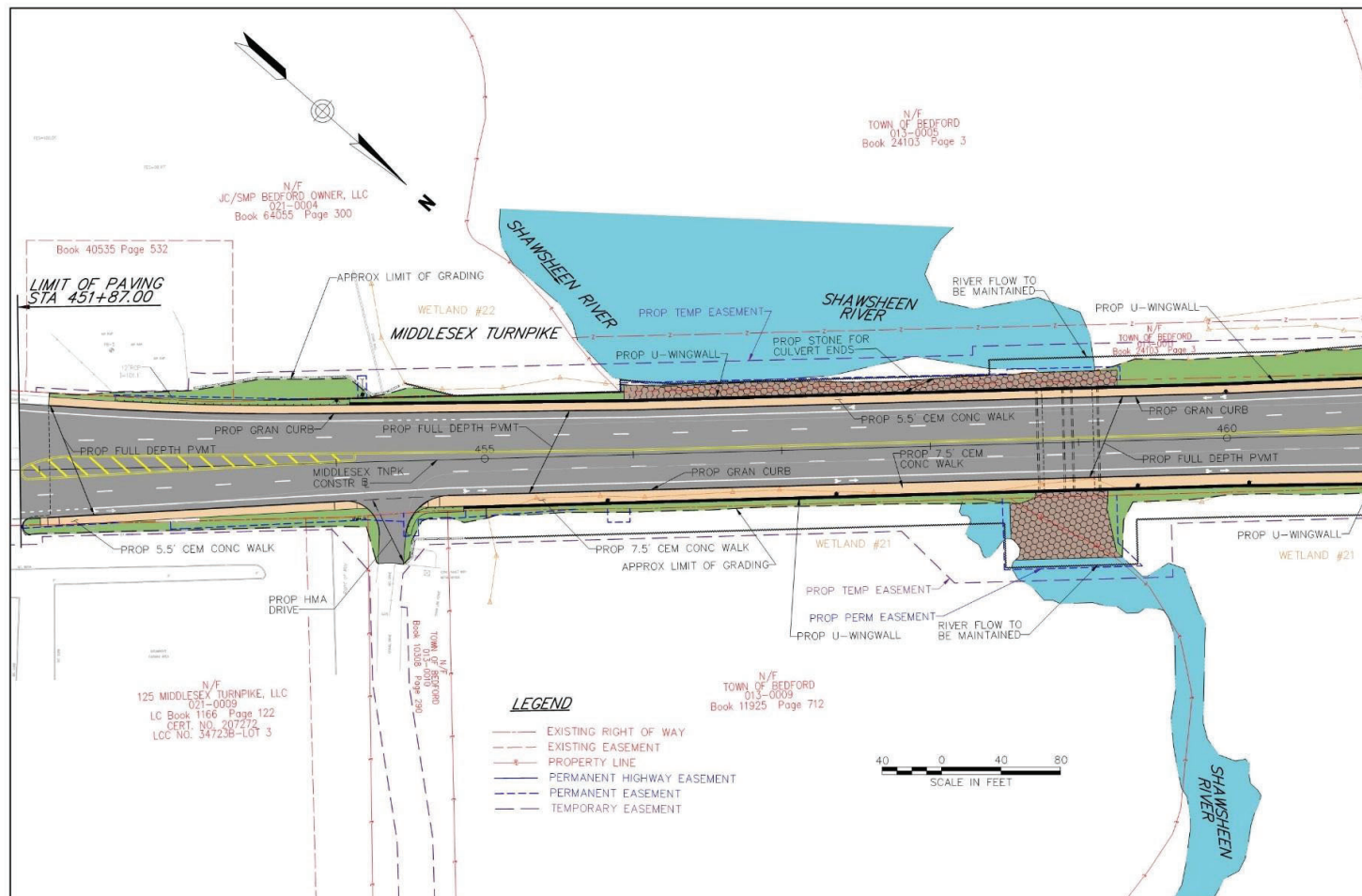
Middlesex Turnpike Shawsheen River Culvert Section



Proposed Improvements Signal at Oak Park Drive



Proposed Improvements Signal at Bedford Woods Drive



Project Team

Municipality

Towns of Bedford & Billerica

Responsible for funding and administering the consultant design contract.

Consultant Engineering Firm

Designer of Record - VHB

MassDOT Highway Division

Responsible for administering the Design Process and providing Resident Engineer Services during Construction

Federal Highway Administration

Responsible for Oversight



Project Costs

Office Estimate: \$31,233,881.50

Low Bid: \$34,475,000.00

Low Bidder: Barletta Heavy Division Inc.
10.38% Above Estimate

Other Bids:

- E T & L Corp. \$37,630,027.00
- Newport Construction Corp. \$39,967,000.00
- Baltazar Contractors Inc. \$40,058,978.40

Contractor Performance

- At the time of the bid opening Barletta Heavy Division Inc. was prequalified in Highway Construction in the amount of \$250,000,000.
- A review of the Contractor Evaluation scores for Barletta Heavy Division Inc. on file with the Highway Division reflects an average score of 92.5.

Project Costs

- This project was included in the SFY 2017 to SFY 2021 Capital Investment Plan in the amount of \$38,432,742
- Estimated Total Construction Cost:

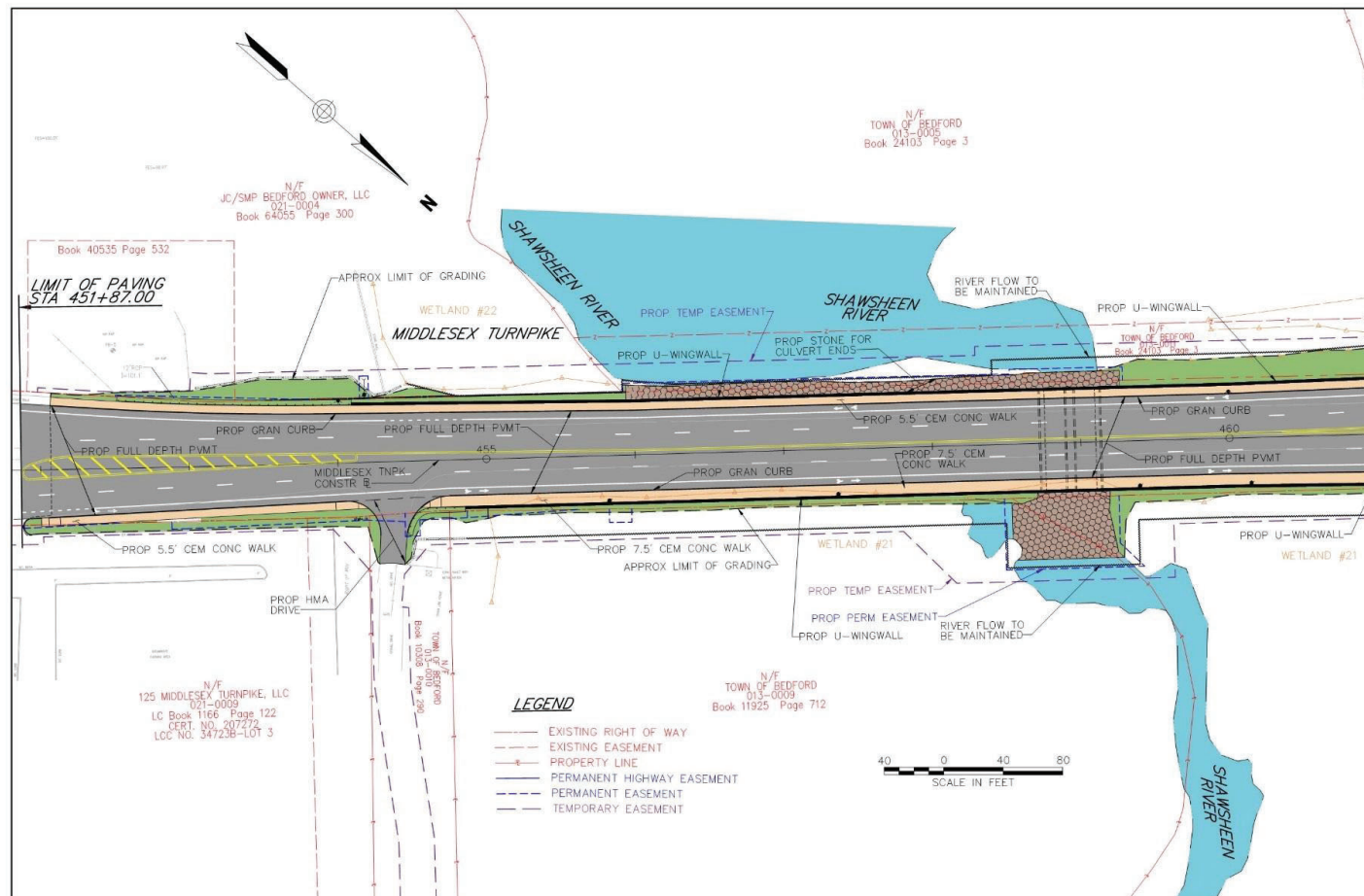
Bid Amount	\$ 34,475,000.00
Contingencies	\$ 3,407,867.36
Traffic Police	\$ 1,000,000.00
Utility Relocations	\$ 2,357,291.15
Total	\$ 41,240,158.51
- The Bid Amount includes items of work that are to be funded by the municipality and therefore are not included in the CIP.
- Utility Relocation Costs are identified in a separate Program in the CIP (Retainage and Utility Payments).
- The Construction Duration is 2,000 Calendar Days from Notice to Proceed (5.5 Years).

DISADVANTAGE BUSINESS ENTERPRISE GOAL IS 11%

- Eastwind Corporation will furnish and install retaining walls in the amount of \$1,480,000.00.
- J.M. Fiske Environmental will prepare the Health and Safety Plan and provide environmental services in the amount of \$529,534.80.
- K. DaPonte Construction Corp. will install curbing, walkways and masonry in the amount of \$804,856.50.
- Medeiros Hydroseeding and Landscaping Construction, Inc. will provide landscaping services, in the amount of \$351,716.20.
- Saugus Construction Corporation will furnish and install bridge rail in the amount of \$676,800.00
- The aggregate value of this work is \$3,842,907.50 which represents 11.15% of the bid amount of \$34,475,000.00.

Appendix

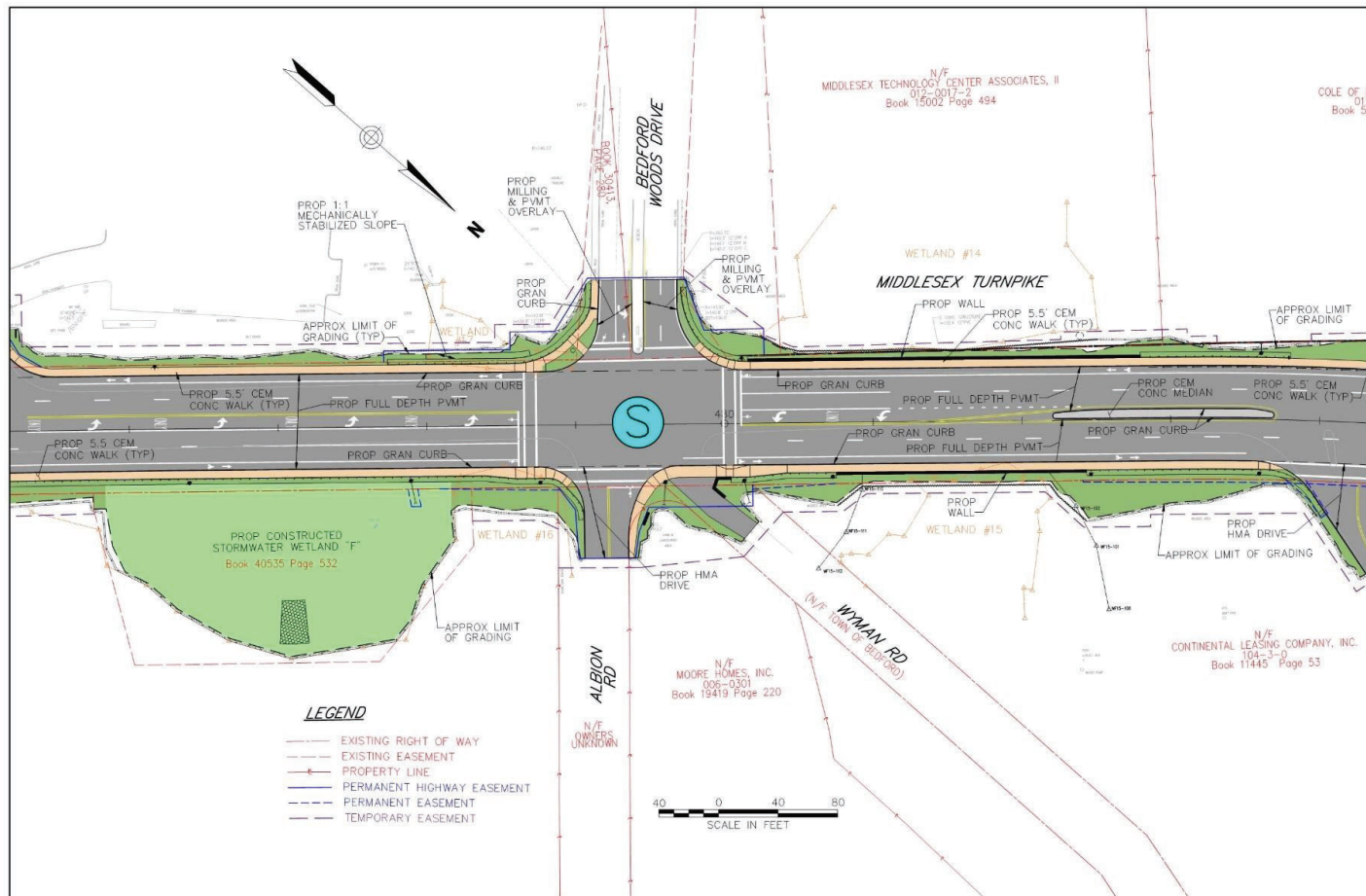
Shawsheen River Culvert Crossing



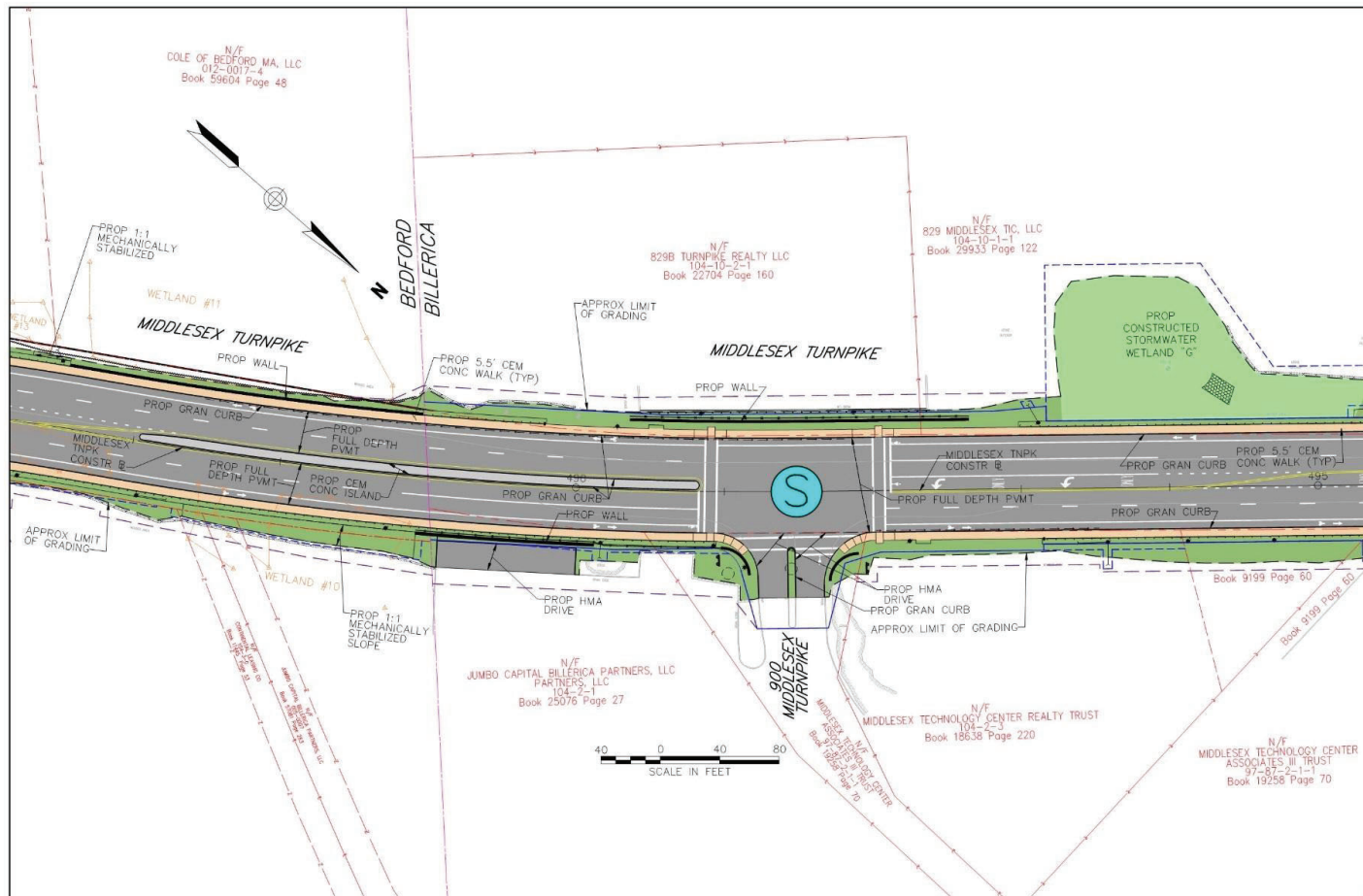
Signal at Oak Park Drive



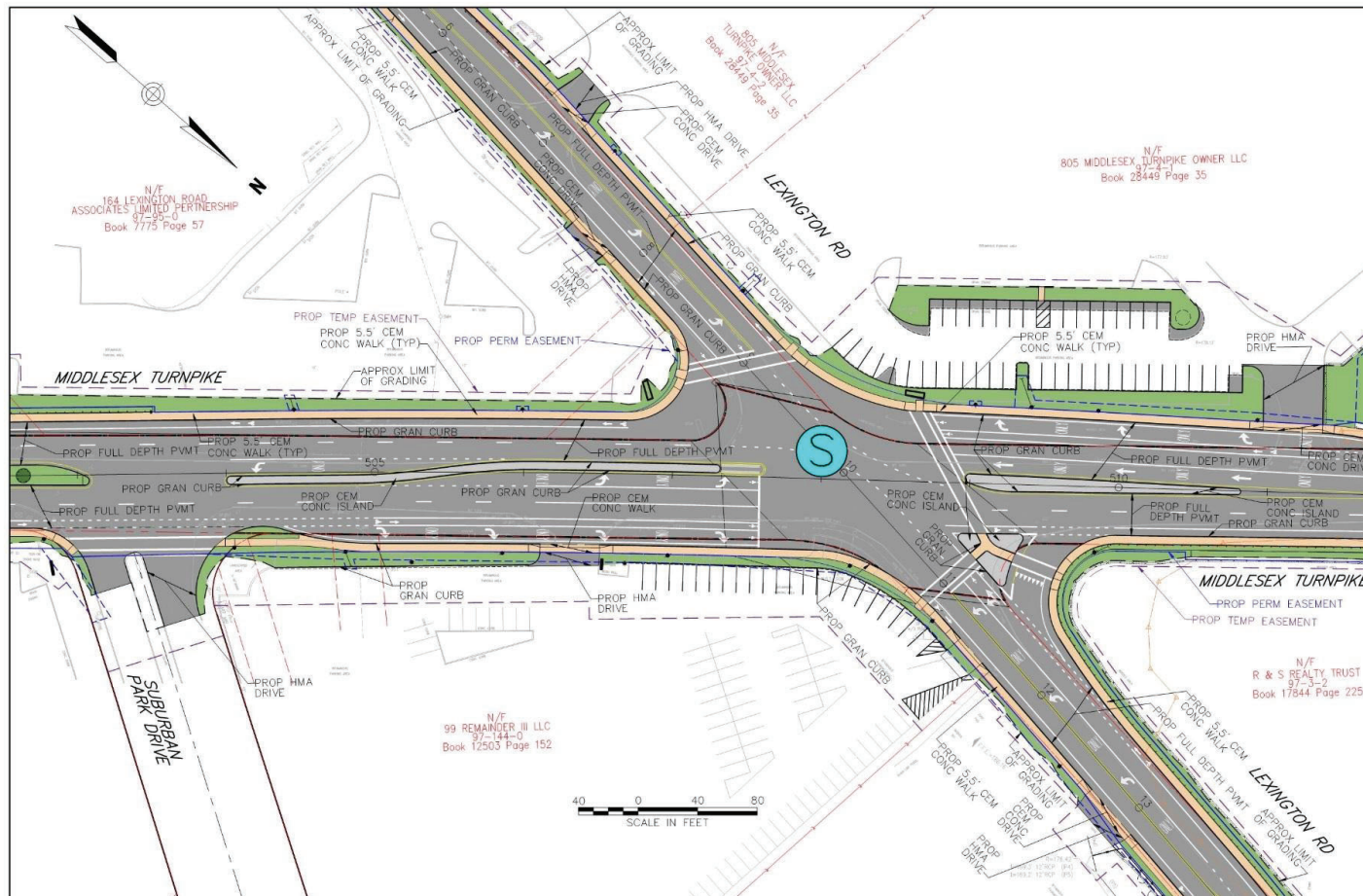
Signal at Bedford Woods Drive



Signal at 900 Middlesex Turnpike



Signal at Lexington Road



Signal at Manning Road

